

ABSTRACT OF THE DISCLOSURE

An arrangement is provided for creating a user detected vibration with a low mass actuator featuring a product cover and a low mass actuator. The product cover has two parts coupled by an elastic joint. The low mass actuator is coupled between the two parts, and responds to an actuation signal, for vibrating the two parts of the product cover in relation to one another. The elastic joint may be made from an adhesive layer. The low mass actuator may be a linear actuator. The arrangement may be a mobile phone. The actuation motor moves the two parts of the product cover a distance in a range of about 5-15 microns. The arrangement further comprises a battery for powering the actuation motor. The arrangement may include many different small products, including a wrist phone, amulet/pendulum/pen-phones, or small standard phones or accessories.